■ Xubuntu16.04 on X280

X280 にインストールしていた Ubuntu 18.04 (MATE) を消して,
Xubuntu 16.04 をインストール.
手元の環境が xfce4 なのは久しぶり.
いい感じのショートカットキー設定ができて，いい感じ.

インストールメモ

- 日本語入力は fcitx-mozc．IME のオン / オフは Alt+` に.
- メニュー表示は，xfce4-popup-whiskermenu という命令．SuperL に割当て.
- remmina は apt でそのまま入れるとゲートウェイ対応してないので最新版を

```
sudo add-apt-repository ppa:remmina-ppa-team/remmina-next
```

- chrome，mono，skype，slack，dropbxo，Java8 なんかは source.list.d を追加してインストール.
- lid close が suspend じゃなくて switch off display だったので suspend に.

■ベンチマーク @ X280

UnixBench のスコアはこんな感じ

```
8 CPUs in system; running 1 parallel copy of tests

Dhrystone 2 using register variables       39946881.0 lps   (10.0 s, 7 samples)
Double-Precision Whetstone                     4493.7 MWIPS (10.6 s, 7 samples)
Execl Throughput                               5503.5 lps   (30.0 s, 2 samples)
File Copy 1024 bufsize 2000 maxblocks        844907.9 KBps  (30.0 s, 2 samples)
File Copy 256 bufsize 500 maxblocks          223349.0 KBps  (30.0 s, 2 samples)
File Copy 4096 bufsize 8000 maxblocks       2060677.8 KBps  (30.0 s, 2 samples)
Pipe Throughput                             1222150.6 lps   (10.0 s, 7 samples)
Pipe-based Context Switching                 185569.7 lps   (10.0 s, 7 samples)
Process Creation                               6090.7 lps   (30.0 s, 2 samples)
Shell Scripts (1 concurrent)                   7090.2 lpm   (60.0 s, 2 samples)
Shell Scripts (8 concurrent)                   4580.0 lpm   (60.0 s, 2 samples)
System Call Overhead                        1097868.2 lps   (10.0 s, 7 samples)

System Benchmarks Index Values               BASELINE       RESULT    INDEX
Dhrystone 2 using register variables         116700.0   39946881.0   3423.0
Double-Precision Whetstone                       55.0       4493.7    817.0
Execl Throughput                                 43.0       5503.5   1279.9
File Copy 1024 bufsize 2000 maxblocks          3960.0     844907.9   2133.6
File Copy 256 bufsize 500 maxblocks            1655.0     223349.0   1349.5
File Copy 4096 bufsize 8000 maxblocks          5800.0    2060677.8   3552.9
Pipe Throughput                               12440.0    1222150.6    982.4
Pipe-based Context Switching                   4000.0     185569.7    463.9
Process Creation                                126.0       6090.7    483.4
Shell Scripts (1 concurrent)                     42.4       7090.2   1672.2
Shell Scripts (8 concurrent)                      6.0       4580.0   7633.3
System Call Overhead                          15000.0    1097868.2    731.9
                                                                    ========
System Benchmarks Index Score                                        1433.6


8 CPUs in system; running 8 parallel copies of tests

Dhrystone 2 using register variables      177289927.0 lps   (10.0 s, 7 samples)
Double-Precision Whetstone                    31826.5 MWIPS (10.4 s, 7 samples)
Execl Throughput                              24997.1 lps   (30.0 s, 2 samples)
File Copy 1024 bufsize 2000 maxblocks       1226510.2 KBps  (30.0 s, 2 samples)
File Copy 256 bufsize 500 maxblocks          326047.6 KBps  (30.0 s, 2 samples)
File Copy 4096 bufsize 8000 maxblocks       3476184.5 KBps  (30.0 s, 2 samples)
Pipe Throughput                             6282132.1 lps   (10.0 s, 7 samples)
Pipe-based Context Switching                1192209.1 lps   (10.0 s, 7 samples)
Process Creation                              57491.3 lps   (30.0 s, 2 samples)
Shell Scripts (1 concurrent)                  41442.0 lpm   (60.0 s, 2 samples)
Shell Scripts (8 concurrent)                   5980.6 lpm   (60.0 s, 2 samples)
System Call Overhead                        6587319.4 lps   (10.0 s, 7 samples)
```

```
System Benchmarks Index Values               BASELINE       RESULT    INDEX
Dhrystone 2 using register variables         116700.0  177289927.0  15191.9
Double-Precision Whetstone                       55.0      31826.5   5786.6
Execl Throughput                                 43.0      24997.1   5813.3
File Copy 1024 bufsize 2000 maxblocks          3960.0    1226510.2   3097.2
File Copy 256 bufsize 500 maxblocks            1655.0     326047.6   1970.1
File Copy 4096 bufsize 8000 maxblocks          5800.0    3476184.5   5993.4
Pipe Throughput                               12440.0    6282132.1   5049.9
Pipe-based Context Switching                   4000.0    1192209.1   2980.5
Process Creation                                126.0      57491.3   4562.8
Shell Scripts (1 concurrent)                     42.4      41442.0   9774.1
Shell Scripts (8 concurrent)                      6.0       5980.6   9967.6
System Call Overhead                          15000.0    6587319.4   4391.5
                                                                     ========
System Benchmarks Index Score                                         5349.4
```

Stream だと,

```
-------------------------------------------------------------
STREAM version $Revision: 5.10 $
-------------------------------------------------------------
This system uses 8 bytes per array element.
-------------------------------------------------------------
Array size = 100000000 (elements), Offset = 0 (elements)
Memory per array = 762.9 MiB (= 0.7 GiB).
Total memory required = 2288.8 MiB (= 2.2 GiB).
Each kernel will be executed 10 times.
 The *best* time for each kernel (excluding the first iteration)
 will be used to compute the reported bandwidth.
-------------------------------------------------------------
Number of Threads requested = 1
Number of Threads counted = 1
-------------------------------------------------------------
Your clock granularity/precision appears to be 1 microseconds.
Each test below will take on the order of 152873 microseconds.
   (= 152873 clock ticks)
Increase the size of the arrays if this shows that
you are not getting at least 20 clock ticks per test.
-------------------------------------------------------------
WARNING -- The above is only a rough guideline.
For best results, please be sure you know the
precision of your system timer.
-------------------------------------------------------------
Function    Best Rate MB/s  Avg time     Min time     Max time
Copy:           17051.9     0.096238     0.093831     0.097821
Scale:           8219.6     0.196395     0.194658     0.197572
Add:            15433.3     0.155877     0.155508     0.156706
Triad:           8035.4     0.299172     0.298680     0.299649
-------------------------------------------------------------
Solution Validates: avg error less than 1.000000e-13 on all three arrays
-------------------------------------------------------------


-------------------------------------------------------------
STREAM version $Revision: 5.10 $
-------------------------------------------------------------
This system uses 8 bytes per array element.
-------------------------------------------------------------
Array size = 100000000 (elements), Offset = 0 (elements)
Memory per array = 762.9 MiB (= 0.7 GiB).
Total memory required = 2288.8 MiB (= 2.2 GiB).
Each kernel will be executed 10 times.
 The *best* time for each kernel (excluding the first iteration)
 will be used to compute the reported bandwidth.
-------------------------------------------------------------
Number of Threads requested = 8
Number of Threads counted = 8
-------------------------------------------------------------
Your clock granularity/precision appears to be 1 microseconds.
Each test below will take on the order of 69503 microseconds.
   (= 69503 clock ticks)
Increase the size of the arrays if this shows that
you are not getting at least 20 clock ticks per test.
-------------------------------------------------------------
WARNING -- The above is only a rough guideline.
For best results, please be sure you know the
precision of your system timer.
```

```
-------------------------------------------------------------
Function    Best Rate MB/s  Avg time     Min time     Max time
Copy:           16496.2     0.100418     0.096992     0.111332
Scale:          17602.3     0.094634     0.090897     0.109692
Add:            19501.1     0.123799     0.123070     0.126484
Triad:          19758.4     0.123108     0.121467     0.124134
-------------------------------------------------------------
Solution Validates: avg error less than 1.000000e-13 on all three arrays
-------------------------------------------------------------
```

ちなみにマシンスペックは,

- Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
- メモリ : 16GB(8GBx2), DDR4, 2400 MHz

って感じ.

■ e 社

新しい仕事にとりかかる前に，自分の周囲のスペースの整理整頓を.